

Updated Search

## EAST Search History

| Ref # | Hits | Search Query                         | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--------------------------------------|---|------------------|---------|------------------|
| L1    | 167  | 257/98.ccls. and @pd>"20060410"      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/08/02 18:01 |
| L2    | 127  | 257/99.ccls. and @pd>"20060410"      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/08/02 18:03 |
| L3    | 122  | 257/103.ccls. and @pd>"20060410"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/08/02 18:05 |
| L4    | 17   | 257/e33.068.ccls. and @pd>"20060410" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/08/02 18:07 |
| L5    | 450  | 438/26.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/08/02 18:07 |

# Interference Search

## EAST Search History

| Ref # | Hits | Search Query               | DBs      | Default Operator | Plurals | Time Stamp       |
|-------|------|----------------------------|----------|------------------|---------|------------------|
| L7    | 76   | 257/98.ccls. and bump      | US-PGPUB | OR               | ON      | 2006/08/02 18:23 |
| L8    | 101  | 257/99.ccls. and bump      | US-PGPUB | OR               | ON      | 2006/08/02 18:20 |
| L9    | 22   | 257/103.ccls. and bump     | US-PGPUB | OR               | ON      | 2006/08/02 18:21 |
| L10   | 39   | 257/e33.068.ccls. and bump | US-PGPUB | OR               | ON      | 2006/08/02 18:22 |
| L12   | 19   | 438/26.ccls. and bump      | US-PGPUB | OR               | ON      | 2006/08/02 18:23 |

## EAST Search History

| Ref # | Hits    | Search Query                                       | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|---|------------------|---------|------------------|
| S3    | 33      | 257/80-82  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 15:43 |
| S6    | 1563    | 257/94   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 14:33 |
| S7    | 2077    | 257/98   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/31 10:00 |
| S8    | 1922    | 257/99   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 14:33 |
| S9    | 2453    | 257/103  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 14:33 |
| S11   | 2083185 | 257/94, "98", "99", "103"                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 15:20 |
| S12   | 16      | S3 and S11   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 15:09 |
| S13   | 150219  | S11 and (light with emitting with device or diode) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/03/30 15:22 |

## EAST Search History

|     |         |  |   |    |    |                  |
|-----|---------|--|---|----|----|------------------|
| S14 | 308     | S13 and first with connecting with pads  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 15:24 |
| S15 | 308     | S13 and (first with connecting with pads)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 15:24 |
| S16 | 37      | S15 and (conductive same bumps)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 15:25 |
| S17 | 57      | S15 and bumps  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 15:43 |
| S18 | 57      | S15 and bump   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 16:56 |
| S19 | 1361984 | (LED or light with emitting with device or diode)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 16:58 |
| S20 | 13611   | (LED or light with emitting with device or diode) and bump   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 17:00 |
| S21 | 767     | (LED or light with emitting with device or diode) and (conductive with bump) and (between with pads) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 17:01 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S22 | 243 | (LED or light with emitting with device or diode) and (conductive with bump) and (between with pads) and reflow  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:22 |
| S24 | 1   | (LED or light with emitting with device or diode) and (conductive with bump) and (between with pads) and (plural with emit\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/30 17:03 |
| S27 | 6   | (LED or light with emitting with device or diode) and (conductive with bump) and (between with pads) and reflow and (cladding with layer) and (active with layer) and (ohmic with contact) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 12:53 |
| S28 | 4   | "6903376"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 08:42 |
| S29 | 1   | 257/e33.043  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 08:42 |
| S30 | 9   | 57/E33.043, "E33.059", "E33.063", "E33.065", "E33.066", "E33.068"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 08:59 |
| S31 | 10  | 257/E33.043, "E33.059", "E33.063", "E33.065", "E33.066", "E33.068"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 08:59 |
| S32 | 28  | "6486499"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 09:44 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S33 | 8    | "09469657"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 09:44 |
| S34 | 2    | (LED or light with emitting with device or diode) and (first with light with radiation) and (second with light with radiation) and (conductive with bump) and (between with pads)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:24 |
| S35 | 1    | (LED or light with emitting with (device or diode)) and (first with light with radiation) and (second with light with radiation) and (conductive with bump) and (between with pads) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:34 |
| S36 | 22   | (LED or light with emitting with (device or diode)) and (first with wavelength) and (second with wavelength) and (conductive with bump) and (between with pads)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:36 |
| S37 | 6    | (LED or light with emitting with (device or diode)) and (white) and (first with wavelength) and (second with wavelength) and (conductive with bump) and (between with pads)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:38 |
| S38 | 56   | (LED or light with emitting with (device or diode)) and (white) and (conductive with bump) and (between with pads)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:51 |
| S43 | 2651 | (LED or light with emitting with (device or diode)) and (white) and (substrate with upconver\$4) or (down conver\$4) and (conductive with bump) and (between with pads)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 10:57 |
| S55 | 27   | (LED or light with emitting with (device or diode)) and (white adj light) and (conductive with bump) and (between with pads)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 11:03 |

## EAST Search History

|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S56 | 17062 | (LED or light with emitting with (device or diode)) and (white adj light)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 11:04 |
| S57 | 10    | (LED or light with emitting with (device or diode)) and (white adj light) and downconverter  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 11:05 |
| S58 | 4920  | (LED or light with emitting with (device or diode)) and (white adj light) and blue and yellow  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 11:06 |
| S59 | 853   | (LED or light with emitting with (device or diode)) and (white adj light) and blue and yellow and "257"/\$   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 11:07 |
| S60 | 398   | (LED or light with emitting with (device or diode)) and (white adj light) and blue and yellow and "257"/\$ and (Znse or zinc or selleni\$2 or "II-VI")                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 11:09 |
| S61 | 377   | (LED or light with emitting with (device or diode)) and (white adj light) and blue and yellow and "257"/\$ and (Znse or zinc or selleni\$2)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 14:35 |
| S62 | 8     | (LED or light with emitting with (device or diode)) and (white adj light) and blue and yellow and "257"/\$ and (Znse or zinc or selleni\$2) and (conductive with bump) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 13:29 |
| S63 | 42346 | (LED or light with emitting with (device or diode)) and (Znse or zinc or selleni\$2)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 14:20 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S64 | 41284  | (LED or light with emitting with (device or diode)) and (substrate with Znse or zinc or selleni\$2)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 14:21 |
| S65 | 74     | (LED or light with emitting with (device or diode)) and (substrate with Znse or zinc or selleni\$2) and (combine with blue and yellow)                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:28 |
| S66 | 40     | (LED or light with emitting with (device or diode)) and (white adj light) and blue and yellow and "257"/\$ and (Znse or zinc or selleni\$2) and solder | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/31 14:35 |
| S68 | 284926 | 313/498, "499", "501"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:31 |
| S69 | 25107  | S68 and (light with emitting with device or diode)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:33 |
| S70 | 584    | S68 and (LED or light with emitting with (device or diode)) and white adj light and blue and yellow  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:36 |
| S71 | 205    | S68 and (LED or light with emitting with (device or diode)) and white adj light and blue and yellow and (Znse or zinc or selleni\$2)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:36 |
| S72 | 240    | S68 and (LED or light with emitting with (device or diode)) and white adj light and blue and yellow and (Znse or zinc or selleni\$2)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:51 |



## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S73 | 55   | S68 and (LED or light with emitting with (device or diode)) and white adj light and blue and yellow and (Znse or zinc or selleni\$2) and (solder with bumps or ball) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/04 14:52 |
| S74 | 1157 | 313/498,499,501.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/05 16:08 |
| S77 | 330  | S74 and ((white near3 light) or convert or upconvert or downcovert)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/05 14:17 |
| S78 | 12   | "6650044"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/06 12:45 |
| S80 | 10   | "6509651"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:23 |
| S81 | 2    | "6791116"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:26 |
| S82 | 34   | "5952681"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:26 |
| S83 | 4    | "6642547"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:26 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S84 | 1248 | 257/94.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:55 |
| S85 | 3692 | 257/94.ccls. 257/98.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:49 |
| S86 | 5424 | 257/94.ccls. 257/98.ccls. 257/99.ccls.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:50 |
| S87 | 6949 | 257/94.ccls. 257/98.ccls. 257/99.ccls.<br>257/103.ccls.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:50 |
| S88 | 5508 | 257/94.ccls. 257/98.ccls. 257/99.ccls.<br>257/103.ccls. and @pd>"20060410" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:51 |
| S89 | 2598 | 257/98.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:53 |
| S91 | 742  | 257/81.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 14:53 |
| S92 | 39   | 257/94.ccls. and @pd>"20060410"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 18:14 |

## EAST Search History

|     |    |                                 |   |    |    |                  |
|-----|----|---------------------------------|---|----|----|------------------|
| S93 | 24 | 257/81.ccls. and @pd>"20060410" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 15:03 |
| S94 | 16 | 257/82.ccls. and @pd>"20060410" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 15:04 |
| S95 | 19 | 257/80.ccls. and @pd>"20060410" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/02 17:56 |